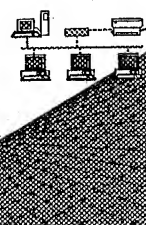


BIOTECHNOLOGY  
SYSTEMS  
BRANCH



**RAW SEQUENCE LISTING**  
**ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/033,195A  
Source: OIP  
Date Processed by STIC: 10/3/02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER** **VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

**<http://www.uspto.gov/web/offices/pac/checker>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

# Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 10/033,195A
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 _____ Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 _____ Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 _____ Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 _____ Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 _____ Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 _____ PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 _____ Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped  Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 _____ Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 _____ Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 _____ Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 _____ Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 _____ PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 _____ Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.	



OIPE

Does Not Comply  
Corrected Diskette Needed

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/033,195A

DATE: 10/03/2002  
TIME: 16:19:29

Input Set : A:\2719.2002-001.txt  
Output Set: N:\CRF4\10032002\J033195A.raw

3 <110> APPLICANT: Fodor, Stephen P.A.  
4 Stryer, Lubert  
5 Read, J. Leighton  
6 Pirrung, Michael C.  
8 <120> TITLE OF INVENTION: Nucleotides and Analogs Having  
9 Photoremovable Protecting Groups  
11 <130> FILE REFERENCE: 2719.2002-001  
13 <140> CURRENT APPLICATION NUMBER: 10/033,195A  
14 <141> CURRENT FILING DATE: 2001-12-28  
16 <150> PRIOR APPLICATION NUMBER: 09/465,126  
17 <151> PRIOR FILING DATE: 1999-12-17  
19 <150> PRIOR APPLICATION NUMBER: 09/063,933  
20 <151> PRIOR FILING DATE: 1998-04-21  
22 <150> PRIOR APPLICATION NUMBER: 08/466,632  
23 <151> PRIOR FILING DATE: 1995-06-06  
25 <150> PRIOR APPLICATION NUMBER: 08/390,272  
26 <151> PRIOR FILING DATE: 1995-02-16  
28 <150> PRIOR APPLICATION NUMBER: 07/624,120  
29 <151> PRIOR FILING DATE: 1990-12-06  
31 <150> PRIOR APPLICATION NUMBER: 07/492,462  
32 <151> PRIOR FILING DATE: 1990-03-07  
34 <150> PRIOR APPLICATION NUMBER: 07/362,901  
35 <151> PRIOR FILING DATE: 1989-06-07  
37 <150> PRIOR APPLICATION NUMBER: 08/456,887  
38 <151> PRIOR FILING DATE: 1995-06-01  
40 <150> PRIOR APPLICATION NUMBER: 07/954,646  
41 <151> PRIOR FILING DATE: 1992-09-30  
43 <150> PRIOR APPLICATION NUMBER: 07/850,356  
44 <151> PRIOR FILING DATE: 1992-03-12  
46 <160> NUMBER OF SEQ ID NOS: 20  
48 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
50 <210> SEQ ID NO: 1  
51 <211> LENGTH: 5  
52 <212> TYPE: PRT  
53 <213> ORGANISM: Artificial Sequence  
55 <220> FEATURE:  
56 <223> OTHER INFORMATION: Peptide sequence  
60 <400> SEQUENCE: 1  
61 Tyr Gly Gly Phe Leu  
62 1 5  
65 <210> SEQ ID NO: 2  
66 <211> LENGTH: 5  
67 <212> TYPE: PRT

The type of errors shown exist throughout  
the Sequence Listing. Please check subsequent  
sequences for similar errors.

↑  
must explain genetic source  
See error summary sheet item 11

## RAW SEQUENCE LISTING

DATE: 10/03/2002

PATENT APPLICATION: US/10/033,195A

TIME: 16:19:29

Input Set : A:\2719.2002-001.txt

Output Set: N:\CRF4\10032002\J033195A.raw

68 <213> ORGANISM: Artificial Sequence  
70 <220> FEATURE:  
71 <223> OTHER INFORMATION: Peptide sequence  
73 <400> SEQUENCE: 2

74 Pro Gly Gly Phe Leu  
75 1 5

78 <210> SEQ ID NO: 3  
79 <211> LENGTH: 6  
80 <212> TYPE: PRT

81 <213> ORGANISM: Artificial Sequence  
83 <220> FEATURE:  
84 <223> OTHER INFORMATION: Peptide sequence  
86 <400> SEQUENCE: 3

87 Tyr Gly Ala Phe Leu Ser  
88 1 5

91 <210> SEQ ID NO: 4  
92 <211> LENGTH: 5  
93 <212> TYPE: PRT

94 <213> ORGANISM: Artificial Sequence  
96 <220> FEATURE:  
97 <223> OTHER INFORMATION: Peptide sequence  
99 <400> SEQUENCE: 4

100 Tyr Gly Ala Phe Ser  
101 1 5

104 <210> SEQ ID NO: 5  
105 <211> LENGTH: 5  
106 <212> TYPE: PRT

107 <213> ORGANISM: Artificial Sequence  
109 <220> FEATURE:  
110 <223> OTHER INFORMATION: Peptide sequence  
112 <400> SEQUENCE: 5

113 Tyr Gly Ala Phe Leu  
114 1 5

117 <210> SEQ ID NO: 6  
118 <211> LENGTH: 6  
119 <212> TYPE: PRT

120 <213> ORGANISM: Artificial Sequence  
122 <220> FEATURE:  
123 <223> OTHER INFORMATION: Peptide sequence  
125 <400> SEQUENCE: 6

126 Tyr Gly Gly Phe Leu Ser  
127 1 5

130 <210> SEQ ID NO: 7  
131 <211> LENGTH: 4  
132 <212> TYPE: PRT

133 <213> ORGANISM: Artificial Sequence  
135 <220> FEATURE:  
136 <223> OTHER INFORMATION: Peptide sequence  
138 <400> SEQUENCE: 7

## RAW SEQUENCE LISTING

DATE: 10/03/2002

PATENT APPLICATION: US/10/033,195A

TIME: 16:19:29

Input Set : A:\2719.2002-001.txt

Output Set: N:\CRF4\10032002\J033195A.raw

139 Tyr Gly Ala Phe  
140 1  
143 <210> SEQ ID NO: 8  
144 <211> LENGTH: 5  
145 <212> TYPE: PRT  
146 <213> ORGANISM: Artificial Sequence  
148 <220> FEATURE:  
149 <223> OTHER INFORMATION: Peptide sequence  
151 <400> SEQUENCE: 8  
152 Tyr Gly Ala Leu Ser  
153 1 5  
156 <210> SEQ ID NO: 9  
157 <211> LENGTH: 5  
158 <212> TYPE: PRT  
159 <213> ORGANISM: Artificial Sequence  
161 <220> FEATURE:  
162 <223> OTHER INFORMATION: Peptide sequence  
164 <400> SEQUENCE: 9  
165 Tyr Gly Gly Phe Ser  
166 1 5  
169 <210> SEQ ID NO: 10  
170 <211> LENGTH: 4  
171 <212> TYPE: PRT  
172 <213> ORGANISM: Artificial Sequence  
174 <220> FEATURE:  
175 <223> OTHER INFORMATION: Peptide sequence  
178 <400> SEQUENCE: 10  
179 Tyr Gly Ala Leu  
180 1  
183 <210> SEQ ID NO: 11  
184 <211> LENGTH: 6  
185 <212> TYPE: PRT  
186 <213> ORGANISM: Artificial Sequence  
188 <220> FEATURE:  
189 <223> OTHER INFORMATION: Peptide sequence  
193 <400> SEQUENCE: 11  
194 Tyr Gly Ala Phe Leu Phe  
195 1 5  
198 <210> SEQ ID NO: 12  
199 <211> LENGTH: 5  
200 <212> TYPE: PRT  
201 <213> ORGANISM: Artificial Sequence  
203 <220> FEATURE:  
204 <223> OTHER INFORMATION: Peptide sequence  
206 <400> SEQUENCE: 12  
207 Tyr Gly Ala Phe Phe  
208 1 5  
211 <210> SEQ ID NO: 13  
212 <211> LENGTH: 5

## RAW SEQUENCE LISTING

DATE: 10/03/2002

PATENT APPLICATION: US/10/033,195A

TIME: 16:19:29

Input Set : A:\2719.2002-001.txt

Output Set: N:\CRF4\10032002\J033195A.raw

213 <212> TYPE: PRT  
214 <213> ORGANISM: Artificial Sequence  
216 <220> FEATURE:  
217 <223> OTHER INFORMATION: Peptide sequence  
219 <400> SEQUENCE: 13  
220 Tyr Gly Gly Leu Ser  
221 1 5  
224 <210> SEQ ID NO: 14  
225 <211> LENGTH: 6  
226 <212> TYPE: PRT  
227 <213> ORGANISM: Artificial Sequence  
229 <220> FEATURE:  
230 <223> OTHER INFORMATION: Peptide sequence  
232 <400> SEQUENCE: 14  
233 Tyr Gly Ala Phe Ser Phe  
234 1 5  
237 <210> SEQ ID NO: 15  
238 <211> LENGTH: 7  
239 <212> TYPE: PRT  
240 <213> ORGANISM: Artificial Sequence  
242 <220> FEATURE:  
243 <223> OTHER INFORMATION: Peptide sequence  
245 <400> SEQUENCE: 15  
246 Tyr Gly Ala Phe Leu Ser Phe  
247 1 5  
250 <210> SEQ ID NO: 16  
251 <211> LENGTH: 6  
252 <212> TYPE: PRT  
253 <213> ORGANISM: Artificial Sequence  
255 <220> FEATURE:  
256 <223> OTHER INFORMATION: Peptide sequence  
258 <400> SEQUENCE: 16  
259 Tyr Gly Ala Phe Met Gln  
260 1 5  
263 <210> SEQ ID NO: 17  
264 <211> LENGTH: 5  
265 <212> TYPE: PRT  
266 <213> ORGANISM: Artificial Sequence  
268 <220> FEATURE:  
269 <223> OTHER INFORMATION: Peptide sequence  
271 <400> SEQUENCE: 17  
272 Tyr Gly Ala Phe Met  
273 1 5  
276 <210> SEQ ID NO: 18  
277 <211> LENGTH: 5  
278 <212> TYPE: PRT  
279 <213> ORGANISM: Artificial Sequence  
281 <220> FEATURE:  
282 <223> OTHER INFORMATION: Peptide sequence

## RAW SEQUENCE LISTING

DATE: 10/03/2002

PATENT APPLICATION: US/10/033,195A

TIME: 16:19:29

Input Set : A:\2719.2002-001.txt

Output Set: N:\CRF4\10032002\J033195A.raw

284 <400> SEQUENCE: 18  
285 Tyr Gly Ala Phe Gln  
286 1 5  
289 <210> SEQ ID NO: 19  
290 <211> LENGTH: 5  
291 <212> TYPE: PRT  
292 <213> ORGANISM: Artificial Sequence  
294 <220> FEATURE:  
295 <223> OTHER INFORMATION: Peptide sequence  
297 <400> SEQUENCE: 19  
298 Tyr Gly Gly Phe Met  
299 1 5  
302 <210> SEQ ID NO: 20  
303 <211> LENGTH: 4  
304 <212> TYPE: PRT  
305 <213> ORGANISM: Artificial Sequence  
307 <220> FEATURE:  
308 <223> OTHER INFORMATION: Peptide sequence  
311 <400> SEQUENCE: 20  
312 Gly Gly Phe Leu  
313 1

VERIFICATION SUMMARY

DATE: 10/03/2002

PATENT APPLICATION: US/10/033,195A

TIME: 16:19:30

Input Set : A:\2719.2002-001.txt

Output Set: N:\CRF4\10032002\J033195A.raw